Contents Volume 35

Vol. 35, No. 1

Long-range transport of ammonia released in a major chemical accident at Ionava, Lithuania
J. Kukkonen, A.L. Savolainen, I. Valkama, S. Juntto and T. Vesala (Helsinki, Finland) 1

Coal agloflotation and supercritical wet oxidation: Novel remediation techniques for ultra-cleaning of contaminated soils
M.P. Kasi, F.O. Azzam and S. Lee (Akron, OH, USA) 17

A three-dimensional air flow model for soil venting: Superposition of analytical functions
J.S. Cho (Ada, OK, USA) 31

Solidification/stabilization of a synthetic electroplating sludge in cementitious binders containing NaOH
A. Roy, H.C. Eaton, F.K. Cartledge and M.E. Tittlebaum (Baton Rouge, LA, USA) 53

Stabilization of mercury containing sludge by a combined process of two-stage pretreatment and solidification
C.-Y. Chang, C.P. Hsu, J.S. Jann, Y.W. Chen, Y.C. Shih, C.F. Mao, W.Y. Lin, K.L. Yin and Y.M. Wu (Taiwan, Republic of China) 73

Soil remediation by agglomeration with Blue Creek coal
M.B. Rahnama and D.W. Arnold (Tuscaloosa, AL, USA) 89

Dust explosion research. State-of-the-art and outstanding problems
R.K. Eckhoff (Fantoft-Bergen, Norway) 103

Review
Pollution prevention technologies: A review and classification
J.D. Englehardt (Coral Gables, FL, USA) 119

Book Reviews 151
Erratum 162

Vol. 35, No.2

Special issue: Role of Environmental (Ecological) Assessment in the Management of Chemical Pollution

Guest Editorial iii

Endangered species: The eye of the storm
M.L. Corn (Washington, DC, USA) 163

EPA responsibilities for administering ecological regulations
P.R. Jutro and T.B. Carter (Washington, DC, USA) 173

Biota and business — Opposing forces?
D.D. Anderson (Richmond, VA, USA) 183

Corporate environmentalism: Emerging responsibilities for public disclosure in the European Community
M.L. Keene (Washington, DC, USA) 197

Environmental assessment: U.S. requirements in new drug applications
P.G. Vincent (Rockville, MD, USA) 211

Requirements of the FDA for the environmental assessment of animal health products
C.J. Haley, J.C. Matheson III and C.E. Eirkson III
(Rockville, MD, USA)..... 217

Protecting cultural resources in managing chemical pollution
J.L. Friedman and B.J. Little (Bethesda, MD, USA) 229

Ecological risk assessment: A scientific perspective
J.H. Gentile, M.A. Harwell, W.H. van der Schalie, S.B. Norton and D.J. Rodier
(Washington, DC, USA)..... 241

Using toxicity data to evaluate ecological effects at Superfund sites
P.B. Duncan (Seattle, WA, USA) 255

Stress to indicator species as assessment endpoints
D.A. Mauriello (Washington, DC, USA)..... 273

Environmental biomarkers as indicators of chemical exposure
P.J. Kloepper-Sams and J.W. Owens (Cincinnati, OH, USA) 283

The role of ecological assessments in the evaluation of contaminated sites
S. Lemont (Linthicum, MD, USA), W.D. Eaton and R.L. Wiley
(Bethesda, MD, USA) 295

Selection of field and laboratory studies for environmental assessment
J.M. Stamm (North Chicago, IL, USA) and R.R. Velagaleti
(Columbus, OH, USA)..... 313

Use of physical and chemical properties to assess environmental transport and fate
L. Marple and L. Throop (Palo Alto, CA, USA)..... 331

Announcements 337

Vol. 35, No. 3

Special issue: The Use of Risk Assessment at DOE Facilities

Preface..... iii

Risk computation for environmental restoration activities
J.G. Droppo, Jr., J.W. Buck, D.L. Strenge and B.L. Hoopes (Richland, WA, USA) 341

Using the RESRAD computer code to evaluate human health risks from radionuclides and hazardous chemicals
J.-J. Cheng and C. Yu (Argonne, II, USA)..... 353

Necessity of uncertainty analyses in risk assessment
L. Shevenell and F.O. Hoffman (Oak Ridge, TN, USA) 369

Evaluation of remediation worker risk at radioactively contaminated waste sites
C.C. Travis, P.A. Scofield and B.P. Blaylock (Oak Ridge, TN, USA) 387

Impacts of the use of institutional controls on risk assessments for U.S. Department of Energy facilities
R.K. White, A. Redfearn, R. Shaw and A.D. King (Oak Ridge, TN, USA)..... 403

"Smart" pump and treat
W.F. Isherwood, D. Rice, Jr., J. Ziagos (Livermore, CA, USA) and E. Nichols (Emeryville, CA, USA)..... 413

High-priority Hanford Site radioactive waste storage tank safety issues: An overview
H. Babad, R.J. Cash, J.L. Deichman and G.D. Johnson (Richland, WA, USA) 427

Announcements 443
Author Index Volume 35 445
Contents Volume 35..... 446